

SCREW COMPACTORS RWC

Shaftless Screw Washing Compactors

MACHINE DESCRIPTION

The machine described here is to all intents and purposes a system that in a single solution combines a material inlet section with a system for washing, transport and a following compaction and dewatering section. It is able to reduce the volume of the waste material considerably.

R.E.M. offers this **U-trough** conveying-compactor with an internal shaftless spiral, equipped with protective closing caps at the points of material inlet and outlet and that has been designed to compact the materials that it receives for treatment but at the same time, compared to the other models of compactor, it features an additional washing system at the inlet, for the washing of screenings. The **RWC** washing-compactor is used to treat the following kinds of screenings:

- **Municipal screenings.**
- **Industrial screenings.**

This unit washes and shakes the screenings separating the fecal material from the waste. This allows a large reduction of fecal material in the final screenings to be disposed.

WORKING LOGIC FOR SHAFTLESS SCREW COMPACTORS RWC

These compactors are equipped with a comprehensive loading zone of a washing system that, on receiving the materials to be treated, proceeds with an initial phase of breaking up the organic material from the waste material to treat. Here any lumps of organic material are separated and washed eliminating the attached organic substances.



The following part is the transport zone, where the screenings free of organic matter are conveyed; at the end of the transport module the drain module completely eliminates the liquid residues coming from the washing zone, repeating the waste washing a second time.

The final module compacts the aggregate that is unloaded into special containers. This model of compactor guarantees a reduction in the volume of the waste to treat by over 40% of its initial quantity.

Thanks to its construction shape, installation is fast and very simple; also from the point of view of maintenance the machine doesn't require any special operations.

It adapts to every type of screenings removed by the screens.

The noise emissions remain within the limits required by current regulations; these emissions have been measured by applying the method required by the regulations, at a distance of 1 m from the machine in operation.

R.E.M. RWC compactors can be equipped with the following accessories:

- **vertical discharge.**
- **bagging (single or endless bag type).**
- **heat and weather protection.**
- **centralized solenoid valves and piping.**
- **control cabinet.**
- **ATEX or UL NEMA 7 EX-proof version.**

MAIN ADVANTAGES FOR COMPACTORS RWC

- No leaks, smells or aerosols generated by the system.
- No drives in contact with the sludge.
- Compact design and small footprint.
- Low operation and maintenance costs.
- Low costs for installation and erection.
- Conveying and dewatering performed by a single unit.
- Screenings free of fecal matter.
- No production of leachate.

STANDARD DIMENSION DATA FOR SHAFTLESS SCREW COMPACTORS RWC

RWC MODELS	A - mm	B - mm	C - mm	CAPACITY - m ³ /h	POWER - kW
RWC200	3010	2000	231	2.0	1.5
RWC300	4400	3000	331	5.0	3.0
RWC400	5819	4000	431	8.0	5.5

n.b.: the manufacturer may modify some dimensions or sizes without prior information

Materials of construction for fabricated parts:

*Stainless Steel AISI304 / *Stainless Steel AISI316

Materials of construction of spiral: *Stainless Steel AISI304 / *Stainless Steel AISI316 / *High resistance steel HRS



INCLINATION: 5° - 30°

THE PERCENTAGE OF REDUCTION IN THE VOLUME OF WASTE IS GREATER THAN 40%.

